BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : CONSTRUCTION OF ROADS AND DRAINS AT AD COLONY MAIN AND CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Estimate Cost Rs. 6.02 Lakhs Rate	Amount
1	**Removing B.S. slab** of Drain and stacking (P No.25 / I N 5.32)								
	for Drain	Sqm							
	AD Colony		1	20.00	0.90		18.00		
			1	11.00	0.90		9.90		
			1	34.00	0.90		30.60		
			1	26.00	0.90		23.40		
			1	15.00	0.90		13.50		
							95.40	66.96	**6387.98**
	Basic Rate	62.00							
	Area Weightage @ 8%	4.96							
	Total	**66.96**							
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/I.19.1)								
	Desilting for Drain	Cum							
	AD Colony		1	106.00	0.60	0.70	44.52		
							44.52	88.56	**3942.69**
	Basic Rate	82.00							
	Area Weightage @ 8%	6.56							
	Total	**88.56**							
3	KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
	AD Colony	Cum							
	for culvert		1	4.00	1.20	1.00	4.80		
	for Drain		1	11.00	1.00	0.90	9.90		
	JP Colony		1	48.00	1.00	0.85	40.80		
							55.50	76.00	**4218.00**
	Basic Rate	189.00							
	Area Weightage @ 8%	15.12							
	Total	204.12							
4	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
		Cum							
	Average Weight of Earth 1.28 Tonne/Km			Qty Vide Item No.2+3			100.02	100.00	10002.00
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Total	**100.00**							
5	**Refixing stone slabs** of drains and pointing in C.M.(1:3)(P.No.25/I.No.5.33)								
		Sqm							
				20% of Qty Vide Item No.1			76.32	82.08	6264.35
	Basic Rate	76.00							
	Area Weightage @ 8%	6.08							
	Total	**82.08**							
6	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
		Cum							
	for culverts		1	4.00	1.20	0.15	0.72		
	for drain		1	11.00	1.00	0.15	1.65		
			1	48.00	1.00	0.15	7.20		
							9.57	5256.36	**50303.37**
	Basic Rate	4867.00							
	Area Weightage @ 8 %	389.36							
	Total	**5256.36**							
7	Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)								
		Cum							
	for culvert		1	4.00	1.20	0.15	0.72		
	culvert side wall		2	4.00	0.20	0.60	0.96		
	Drain bed		1	11.00	1.00	0.15	1.65		
			1	48.00	1.00	0.15	7.20		
	drain side wall		2	11.00	0.20	0.60	2.64		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			2	48.00	0.15	0.60	8.64		
							21.81	6491.88	**141587.90**
	Basic Rate	6011.00							
	Area Weightage @ 8 %	480.88							
	Total	**6491.88**							
8	KSRB 4.9.2: Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- **TMT Bars Fe 500** P.17/It.No.4.46.2								
		tonne							
		65% of Qty Vide Item No.				in Qtl	14.1765		
						in tonne	**1.4177**	60534.00	**85816.03**
	Basic Rate	56050.00							
	Area Weightage @ 8 %	4484.00							
	Total	**60534.00**							
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
		Sqm							
			2X2	4.00		0.60	9.60		
			2X2	11.00		0.60	26.40		
			2X2	48.00		0.60	115.20		
							151.20	316.44	**47845.73**
	Basic Rate	293.00							
	Area Weightage @ 8%	23.44							
	Total	**316.44**							
10	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	for Drain covering slab		1	48.00	0.90		43.20		
			20% of Qty Vide Item No.1				19.08		
							62.28	2100.00	**130788.00**
	Data Rate	**2100.00**							
11	Providing and fixing **RCC precast Slabs of 0.20 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
			1	4.00	1.20		4.80		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			1	11.00	0.90		9.90		
							14.70	4402.79	64721.01
	Data Rate	4402.79							
						Sub-Total Amount			551877.05
12	9% for KRIDL Charges								49668.93
13	Miscellaneous and unforeseen charges	LS							454.01
						Grand Total Amount			602000.00
	(Rupees Six Lakhs Two Thousand Only)								

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2 The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.02

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

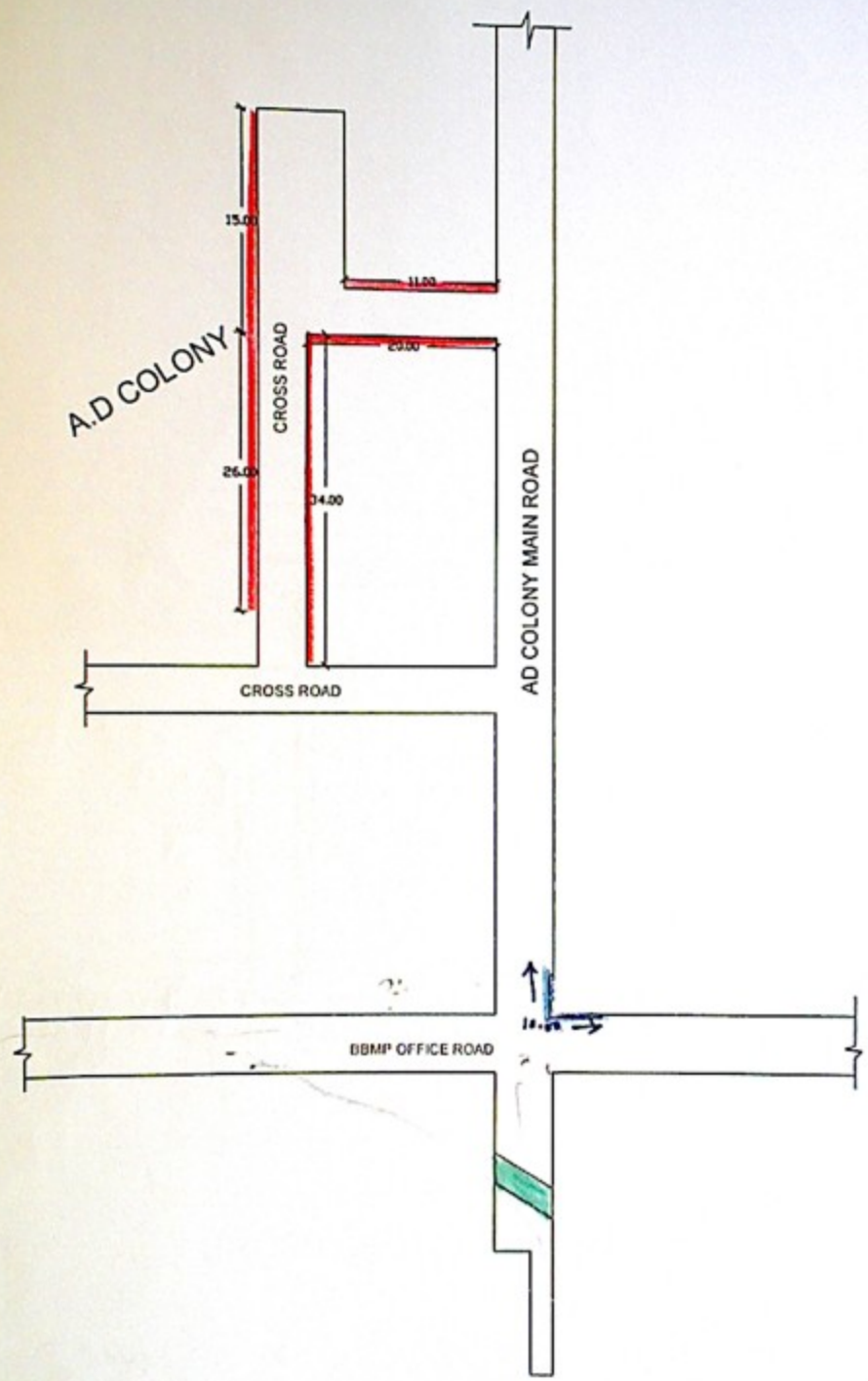
Executive Engineer
Yelahanka Division
B.B.M.P

Administrative Sanction for Rs. 6.02 lakh
Six lakhs & Two Thousand Rupees only
Is accorded under head P-1878
- 2015-16
Registered as CE/ Subject
to conditions
No. EE/MNK/AN/28/16-17 dt: 1-17
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs 6.02 lakh
Rupees Six lakh & Two
Thousand only
Under P-1878. 2015-16
Registered as CE/ No 0
Subject to conditions
enclosed memo
Dt
EE/MNK/TS/28/16-17
Dated 1-17 Rs. 6.02 lakh
Executive Engineer

NAME OF WORK : CONSTRUCTION OF ROADS AND DRAINS AT AD COLONY MAIN AND CROSS ROADS IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE



Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

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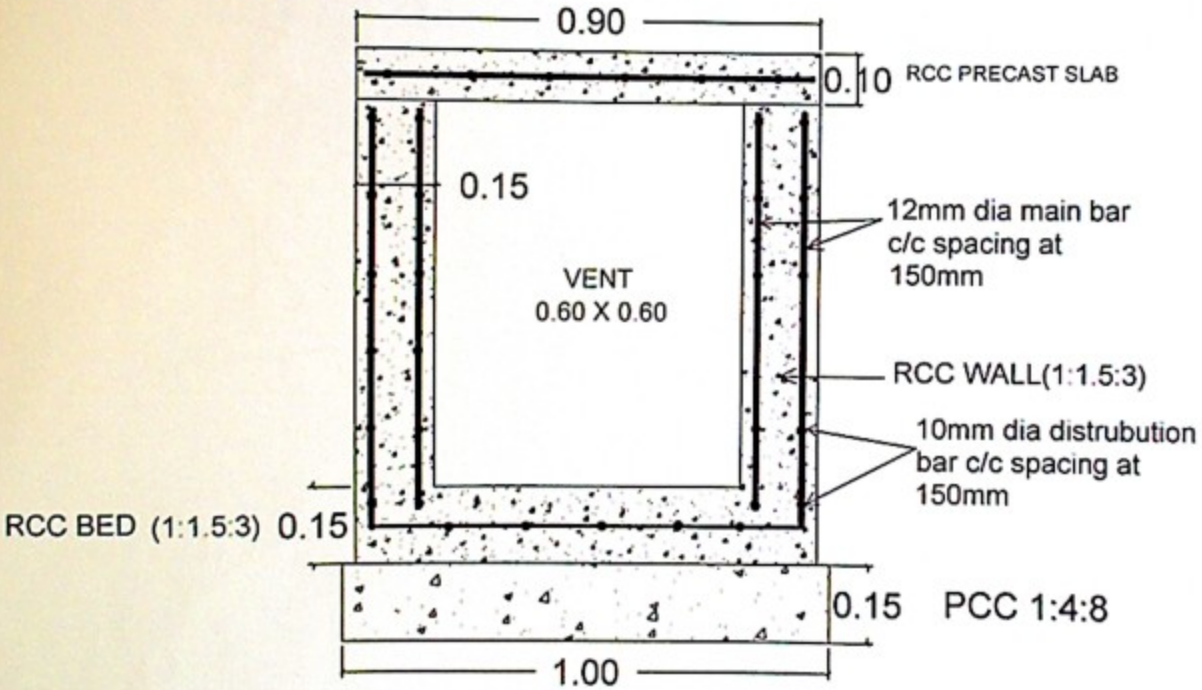

CROSS SECTION OF RCC DRAIN

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore